

FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449A/B



INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Attorney Docket Number	45755/DBP/T360
Application Number	10/056,999
Filing Date	January 25, 2002
Applicant(s)	Takehiro Tsuritani, et al.
Group Art Unit	2874
Examiner Name	N/A

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
<i>TM</i>		5,218,662	06-08-1993	Dugan
<i>TM</i>		5,696,614	12-09-1997	Ishikawa et al
<i>TM</i>		5,777,770	07-07-1998	Naito
<i>TM</i>		5,781,673	07-14-1998	Reed et al
<i>TM</i>		5,877,881	03-02-1999	Miyauchi et al
<i>TM</i>		5,940,207	08-17-1999	Weich et al
<i>TM</i>		5,991,477	11-23-1999	Ishikawa et al
<i>TM</i>		6,021,235	02-01-2000	Yamamoto et al
<i>TM</i>		6,043,914	03-28-2000	Cook et al

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup> (✓)
<i>TM</i>		JP6-11620	01-21-1994	Corning Incorporated	w/English abstract and US counterpart previously filed 5,361,319 on 1/25/02

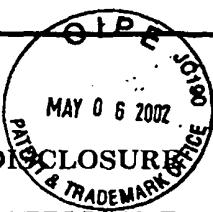
EXAMINER SIGNATURE	<i>[Signature]</i>	DATE CONSIDERED	<i>10/2003</i>
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EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>1</sup> - Kind Code <sup>6</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>4</sup> (✓)
TM		JP10-221562	08-21-1998	Lucent Technologies Inc.	US counterpart 5,781,673 above
TM		JP2000-31902	01-28-2000	KDD Corporation	w/English abstract

**OTHER DOCUMENTS**

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
TM		D. LE GUEN et al, Narrow Band 640 Gbit/s Soliton WDM Transmission over 1200 km of Standard Fibre with 100 km-21 dB Amplifier Spans, ECOC, 1998, 20-24 September 1998, pages 61 and 63
TM		M. MURAKAMI et al, Long-Haul 16X10 WDM Transmission Experiment Using Higher Order Fiber Dispersion Management Technique, ECOC, 1998, 20-24 September 1998, pages 313-314.
TM		T. MATSUDA et al, 340 Gbit/s (34X10 Gbit/s) WDM transmission over 8,514km using broadband gain equalisation technique for transoceanic systems, Electronics Letters, 24 <sup>th</sup> June 1999, Vol. 35, No. 13, pages 1090-1091.
TM		T. TANAKA et al, 2.1-Tbit/s WDM Transmission Over 7,221km with 80-km Repeater Spacing, ECOC, 2000, 3-7 September, 2000, 4 pages
TM		I. MORITA et al, 40 Gb/s Single-Channel Soliton Transmission Over Transoceanic Distances by Reducing Gordon-Haus Timing Jitter and Soliton-Soliton Interaction, Journal of Lighwave Technology, Vol 17, No. 12, December 1999, 2506-2511

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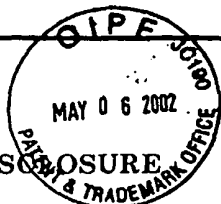
EXAMINER: Initial, if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

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M		I. MORITA et al, 40 Gbit/s X 16 WDM Transmission Over 2000km Using Dispersion Managed Low-Nonlinear Fiber Span, ECOC 2000, 3-7 September 2000, pages 25-27 (5 pages total)
M		M. SUZUKI et al, 20 Gbit/s-based soliton WDM transmission over transoceanic distances using periodic compensation of dispersion and its slope, Electronics Letters, 10 <sup>th</sup> April 1997, Vol. 33, No. 8, pages 691-692.
M		H. TAGA et al, 213 Gbit/s (20X10.66Gbit/s), over 9000km Transmission Experiment using Dispersion Slope Compensator, OFC 1998, pages PD13-1 - PD13-4

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FORM PTO-1449

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<b>Attorney Docket Number</b>	45755/DBP/T360
<b>Application Number</b>	N/A
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<b>Applicant(s)</b>	Takehiro Tsuritani, et al.
<b>Group Art Unit</b>	N/A
<b>Examiner Name</b>	N/A

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10/25/02

**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>TM</i>	5,361,319	11/1994	Antos, et al.	385	123	

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>TM</i>	1 035 671	09/2000	EPO				
<i>TM</i>	2000-82995	03/2000	Japan			Partial Translation	

**OTHER DOCUMENTS**

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>TM</i>	T. NAITO, ET AL., "1 Terabit/s WDM Transmission over 10,000 km" ECOC '99 PDPD2-1, Nice, 1999

EXAMINER SIGNATURE	<i>Takehiro Tsuritani</i>	DATE CONSIDERED	10/2003
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U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
<i>TM</i>		6,181,449 B1	01-30-2001	Taga, et al.

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> . Kind Code <sup>5</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
<i>TM</i>		EP 0 554 714 A1	08-11-1993	Corning Incorporated	
<i>TM</i>		EP 0 701 340 A2	03-13-1996	Kokusai Denshin Denwa Kabushiki Kaisha	
<i>TM</i>		EP 0 701 340 A3	11-27-1996	Kokusai Denshin Denwa Kabushiki Kaisha	
<i>TM</i>		EP 0 777 347 A2	06-04-1997	Kokusai Denshin Denwa Kabushiki Kaisha	
<i>TM</i>		EP 0 777 347 A3	04-15-1998	Kokusai Denshin Denwa Kabushiki Kaisha	
<i>TM</i>		FR 2 761 839 A1	10-09-1998	Kokusai Denshin Denwa Kabushiki Kaisha Kabushiki Kaisha	Corresponding U.S. 6,181,449 Above
<i>TM</i>		GB 2 309 131 A	07-16-1997	NEC Corporation	

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INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
TM		EP Search Report, dated 07-05-2001
TM		EP Search Report, dated 07-19-2002
TM		Patent Abstract of Japan, Publication Number 08237222, Published 09-13-02, in the name of Nippon Telegr & Teleph Corp
TM		TAGA, ET AL., "20 WDM, 10.66 Gbit/s transmission experiment over 9000 km using periodic dispersion slope compensation," Electronics Letters, 03-05-1998, Vol. 34 No. 5, pages 476-478
TM		KIKUCHI, ET AL., "Analysis of cross-phase modulation (XPM) effect on WDM transmission performance," Electronics Letters, 04-10-1997, Vol. 33 No. 8, pages 653-654

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	<b>Applicant(s)</b>	Takehiro Tsuritani et al
	<b>Group Art Unit</b>	2874
	<b>Examiner Name</b>	N/A

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U.S. PATENT DOCUMENTS				
<b>EXAMINER INITIALS</b>	<b>Cite No.<sup>1</sup></b>	<b>DOCUMENT NUMBER</b> Number - kind code <sup>2</sup> (If known)	<b>PUBLICATION DATE</b> MM-DD-YYYY	<b>NAME OF PATENTEE</b>

FOREIGN PATENT DOCUMENTS					
<b>EXAMINER INITIALS</b>	<b>Cite No.<sup>1</sup></b>	<b>Foreign Patent Document</b> Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)	<b>Publication Date</b> MM-DD-YYYY	<b>Name of Patentee or Applicant of Cited Document</b>	<b>T<sup>6</sup></b> (S)
M		EP 0 777 347 A2	06-04-1997	Kokusai Denshin Denwa Kabushiki Kaisha	previously filed Sept. 11, 2002
M		EP 1 035 671 A2	09-13-2000	KDD Corporation; KDD Submarine Cable Systems Inc.	previously filed April 30, 2002

OTHER DOCUMENTS		
<b>EXAMINER INITIALS</b>	<b>Cite No.<sup>1</sup></b>	<b>Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</b>
M		M. Murakami et al; 'Long-Haul 16 X 10 Gh/s WDM Transmission Experiment Using Higher Order Fiber Dispersion Management Technique: IEEE Photonics Technology Letters, No. 11, No. 7, July 1999; page 898-900
M		T. Tsuritani et al; '340 Gbit/s (32 X 10.66 Gbit/s) WDM transmission over 6054km using hybrid fibre spans of large core fibre and dispersion shifted fibre with low dispersion slope'; Electronics Letters, 15 April 1999, Vol. 35, No. 8, 2 pages
M		K. Tanaka et al; '320 Gbit/s (32 X 10.7Gbit/s) error-free transmission over 7280km using dispersion flattened fibre link with standard SMF and slope compensation DCF'; Electronics Letters; 14 October 1999, Vol. 35, No. 21, page 1860-1862
M		European Search Report, dated October 9, 2002, for European Patent Office Application No. 00119594.0-1246

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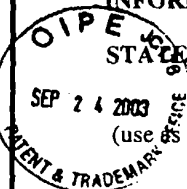
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Group Art Unit	2874
Examiner Name	Tina M. Lin

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TM		5,343,322	08-30-1994	Pirio et al.
TM		6,134,033	10-17-2000	Bergano et al.
TM		US 6,263,138 B1	07-17-2001	Sillard et al.
TM		US 6,307,985 B1	10-23-2001	Murakami et al.
TM		US 6,486,993 B1	11-26-2002	Kuroshima

FOREIGN PATENT DOCUMENTS

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